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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.63(b))

Attorney Docket No. 000398

Total Pages 14

First Named Inventor or Application Identifier

Manu Kumar

Express Mail Label No. EL637984434US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

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1. ☒ Fee Transmittal Form
(Submit an original, and a duplicate for fee processing)
2. ☒ Specification [Total Pages 14]
(preferred arrangement set forth below)
- Descriptive title of the invention
 - Cross References to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to Microfiche Appendix
 - Background of the invention
 - Brief Summary of the invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure

3. ☒ Drawing(s) (35 USC 113) [Total Sheets 9]

4. Oath or Declaration [Total Pages 1]

- a. ☐ Newly executed (original or copy)
- b. ☐ Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 17 completed)
(Note Box 6 below)
- c. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting
inventor(s) named in the prior application,
see 37 CFR 1.63(d)(2) and 1.33(b).

5. ☐ Incorporation By Reference (useable if Box 4b is checked)
The entire disclosure of the prior application, from which a
copy of the oath or declaration is supplied under Box 4b,
is considered as being part of the disclosure of the
accompanying application and is hereby incorporated by
reference therein.

6. ☐ Microfiche Computer Program (Appendix)
7. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
- a. ☐ Computer Readable Copy
 - b. ☐ Paper Copy (identical to computer copy)
 - c. ☐ Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

8. ☐ Assignment Papers (cover sheet & document(s))
9. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney
(when there is an assignee)
10. ☐ English Translation Document (if applicable)
11. ☐ Information Disclosure ☐ Copies of IDS
Statement (IDS)/PTO-1449 Citations
12. ☐ Preliminary Amendment
13. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
14. ☐ Small Entity ☐ Statement filed in prior application
Statement(s) Status still proper and desired
15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. ☐ Other:

17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No: _____

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23464

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NAME	Michael G. Panian				
	Buchanan Ingersoll, P.C.				
ADDRESS	One Oxford Centre				
	301 Grant Street, 20th Floor				
CITY	Pittsburgh	STATE	PA	ZIP CODE	15219
COUNTRY	USA	TELEPHONE	412-562-3743	FAX	412-562-1041

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37 CFR 1.10 - SEPARATE PAPER

ATTORNEY'S DOCKET NO

000398

IN RE APPLICATION OF

Manu Kumar

SERIAL NUMBER

FILED

June 13, 2000

FOR

APPARATUS AND METHOD FOR COMPANY REPRESENTATIVES TO
MONITOR AND ESTABLISH LIVE CONTACT WITH VISITORS TO THEIR

GRP. ART UNIT

EXAMINER

WEBSITE

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Date of deposit June 13, 2000

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Variable	Mean	SD	Min	Max
Age	35.2	12.5	18	65
Gender	0.45	0.50	0	1
Marital Status	0.60	0.49	0	1
Education	12.5	2.1	9	16
Income	3500	1500	1000	8000
Health	0.75	0.43	0	1
Smoking	0.30	0.46	0	1
Alcohol	0.20	0.40	0	1
Exercise	0.10	0.30	0	1
Stress	0.50	0.50	0	1
Sleep	0.60	0.49	0	1
Appetite	0.70	0.46	0	1
Mood	0.80	0.41	0	1
Energy	0.70	0.46	0	1
Concentration	0.60	0.49	0	1
Memory	0.70	0.46	0	1
Emotion	0.60	0.49	0	1
Behavior	0.70	0.46	0	1
Thought	0.60	0.49	0	1
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Evaluation	0.60	0.49	0	1
Comparison	0.70	0.46	0	1
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Organization	0.70	0.46	0	1
Planning	0.60	0.49	0	1
Problem Solving	0.70	0.46	0	1
Decision Making	0.60	0.49	0	1
Communication	0.70	0.46	0	1
Interpersonal Skills	0.60	0.49	0	1
Teamwork	0.70	0.46	0	1
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Management	0.70	0.46	0	1
Coordination	0.60	0.49	0	1
Organization	0.70	0.46	0	1
Planning	0.60	0.49	0	1

APPARATUS AND METHOD FOR COMPANY REPRESENTATIVES TO MONITOR AND ESTABLISH LIVE CONTACT WITH VISITORS TO THEIR WEBSITE

BACKGROUND OF THE INVENTION

This application is related to provisional patent application Serial No. 60/139,429 filed on June 14, 1999.

1. Field of the Invention

The invention relates to a system for establishing a live contact between visitors to a website and a representative of the company or organization or individual whose website is being visited. The invention combines the Web with instant messaging to allow website operators to monitor in real-time how many people are visiting sections of their website, from where and for how long and to proactively approach the visitor with an instant message, thereby engaging the visitor in a dialog with the company representative.

2. Description of the Prior Art

The World Wide Web has transformed the way in which businesses operate today. The majority of companies in the world today are either already on the Web or moving towards it. Studies have shown that the majority of consumers will first turn to the Web as a source of information before they make a buying decision.

However, if the Web has done one thing, it has made business more competitive. Buyers have information available at their fingertips and the competition is literally "one click" away. Though this has been an immense boon to buyers, it makes competing in the Internet marketplace

more difficult. In a way, the Web has empowered the “browsers” to get more information and have the power of gathering the information.

On the other hand, companies, organizations, and individuals who establish a website for personal or for business use, are always trying to find the answer to the questions: Who is visiting my website? What information are they viewing? Are they finding the information they need? How do I contact the prospective customers on my website?

Current approaches to answering the above questions include lengthy and complicated analysis of web site log files and statistical analyses to predict the demographics of the visitors to a web site. For high traffic web sites this results in analyzing several gigabytes of data to produce a report which is marred with statistics and graphs which, though informative to some level, lack the ability to provide a good feel for the pulse of the website.

At the same time, the Internet has created a need for real-time analysis and action. Information needs to be available faster and decisions made faster based on the availability of this information. Though there have been several companies offering real-time log-analysis, the resulting information is still vague and does not allow the company to literally reach out and communicate with their customers or visitors to their web site.

The rationale behind this invention is to treat visitors to a website with the same amount of respect and hospitality as if they had literally walked in to your office or home, rather than simply spending millions of dollars to just put out information on the web for people to find by themselves.

The invention described herewith provides the website operators with the ability to answer the questions mentioned above and more, creating a unique approach to operating a website and truly getting their finger on what is happening on the web site at any instant in time.

It is therefore an object of the present invention to empower website operators to monitor visitors to their web site and to empower them (website operators) to proactively approach visitors on their website to offer assistance or solicit sales.

SUMMARY OF THE INVENTION

The above and other objects are attained by the present invention, according to which, briefly stated, an apparatus for company representatives to monitor and establish live contact with visitors to their website is provided. An apparatus for monitoring website activity comprises means for tracking a visit to a website by a visitor, along with means for identifying that visitor. The apparatus monitors the progress of the visitor to additional pages within the website, and includes means for initiating direct communication with the visitor according to the progress of the visitor within the website. Preferably, a "radar" screen is provided to track the number of visitors at particular pages within the website. In order to initiate direct contact with a visitor, means are provided for presenting a text box to the visitor, preferably within his or her browser, by a customer service representative. The text box further includes means for identifying the customer service representative to the visitor and an interactive dialog box for the exchange of information between the customer service representative and the visitor. The dialog between the customer service representative and the visitor is instantaneous and real-time as the visitor navigates through the website.

BRIEF DESCRIPTION OF THE DRAWINGS

There are shown in the drawings certain exemplary depictions of screen displays of the invention as presently preferred. It would be understood that the invention is not limited to the

displays shown as examples, and such displays are capable of variations with the scope of the appended claims. In the drawings:

Figure 1 is schematic diagram of the website visitor contact methodology of the present invention;

Figure 2 is a preferred view of the Zone tab of the console which displays the visitors in a particular area (zone) of the website;

Figure 3 is a preferred screen display for the CSR tab which shows all the Customer Service Representatives that are currently monitoring the various zones of the site;

Figure 4, consisting of Figures 4A and 4B, show alternate screen displays for the Radar screen view which shows the overall traffic distribution for the website(s) for the zones being monitored;

Figure 5, consisting of Figures 5A and 5B, show alternate screen displays for the Message window that pops up on the visitors computer when the CSR initiates a discussion with the visitor; and

Figure 6, consisting of Figures 6A and 6B, show representations of a Dialog tab in which the CSR may communicate back and forth with the visitor and launch new web pages in the visitors browser.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

As shown generally in Figure 1, the apparatus of the present invention works by embedding an "Agent" 10 in the web pages for the website 13 that wishes to incorporate the ability to monitor and approach visitors 16 to the site. The Agent is currently implemented as a Java-applet which is embedded into an HTML page by using the <APPLET> HTML tag. When a

visitor arrives on a website through the web 19 and loads up any page which has been enabled with the Agent the visitor shows up on a Console 22 at the website operator's location.

At the time the Agent is loaded up along with the web page, the Agent initiates a Network connection back to a server 25 (currently the Bersama Collaboration Server) and announces that a visitor is currently looking at this page. This information is received by the Console (s) 22 which then updates its display to show that a visitor 16 is looking at the page.

When the CSR 28 clicks on a visitor's listing, the Console 22 sends a message to the Agent 10 to activate the agent. The Agent then launches up a new window (See Figs.6A and 6B) on the visitors computer with the message from the CSR 28. In this way, the CSR 28 has the ability to instantly send a message to the visitor 16 on the website and thereby engage the visitor in an on-going dialogue.

Referring now to the remaining drawings in detail, Figure 2 shows a preferred embodiment of the present invention in which a console 22 at the website operator's location can

display information regarding the use of the website 13 by people on the Internet or World Wide Web 19. For example, in the Zone tab 31 of Figure 2 those people or visitors 16 visiting a particular website 34, such as WWW.SneakerLabs.com, are listed therein. Also, the area where they are visiting from 37, labeled "IP," is also displayed. The last column indicates the time 40 that that particular person connected to the particular website 13. By clicking on the tab 43 listed as "CSR," the website operator can see what customer service representatives 28 are currently monitoring the site to provide assistance and information to those visiting the operator's website (Figure 3).

By monitoring visitors to the operator's website 13, the operator can provide direct assistance and more pertinent information to the visitor 16 of the website by the use of the present invention. For example, if it is noted that a visitor 16 to a particular website has been viewing the information on that page for several minutes the CSR 28 can "click" on the visitor's listing which causes a message to be sent to the visitor 16 by the agent 10 (Figure 5). A text screen 46 can appear on the visitor's display monitor from one of the CSR's 28. The customer service representative can initiate a dialog with the website visitor 16 so as to provide more detailed information to the visitor on a direct one-on-one basis through these text messages.

In addition to providing a listing of the visitors to the website (Figure 2), the present invention also has a "radar" screen 49 to give an overall summary of the visitors to the website. Such a screen can be broken up into different sectors indicating the various levels or pages within a particular website operator's website (Figures 4A and 4B). Thus, the number of visitors to a different sector, for example, in the overall website can be relayed to the CSR's 28. It would be readily apparent that other such indicators may be used to denote relative activity within a particular website. For example, a bar graph mechanism, similar to the output for stereo a

graphic equalizer, can be used to indicate movement within the site, such as the individual bar graphs moving up and down to indicate how many people may be visiting particular sectors or pages on the site.

By way of our illustration, such as for the on-line sale of merchandise to website visitors, an example of the use of the present invention will be described. It is not uncommon for visitors to “surf the web” in order to obtain information on products and services that they can then purchase through the Internet, or as means for obtaining relevant information to then initiate a transaction at a local retail outlet. For example, the purchaser of computer equipment can visit any website which can be operated either by distributors or manufacturers of such equipment in order to obtain the information needed to make the purchasing decisions. By way of example, if a person were interested in a certain computer equipment component, such as a printer, that person can visit a manufacturer’s website in order to obtain the information.

However, it is not uncommon for such manufacturers to also offer other types of computer equipment, such as monitors, CPU’s, fax machines, copiers, and other related equipment. Thus, when a person first visits such a website they can make a choice from a list of types of products, such as those listed above, from which to obtain more detailed information. At the operator’s console 22 when a person first logs on to the company’s website there would be a notification that that visitor 16 has accessed the first page, for example, of the computer equipment manufacturer’s website. Once the visitor 16 makes a decision that it is a printer that they are particularly interested in and accesses that lower level page within the website, such as by clicking on the internal link, the visitor 16 can thus obtain information on printers. There may be various types of printers such as ink jet printers or laser printers that may be available, from which the website visitor must choose. The visitor 16 may either get information on all different

Parameter	Value	Unit
Initial concentration	1.0	g/L
Initial pH	7.0	
Temperature	25	°C
Time	0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048, 4096, 8192, 16384, 32768, 65536, 131072, 262144, 524288, 1048576, 2097152, 4194304, 8388608, 16777216, 33554432, 67108864, 134217728, 268435456, 536870912, 1073741824, 2147483648, 4294967296, 8589934592, 17179869184, 34359738368, 68719476736, 137438953472, 274877906944, 549755813888, 1099511627776, 2199023255552, 4398046511104, 8796093022208, 17592186044416, 35184372088832, 70368744177664, 140737488355328, 281474976710656, 562949953421312, 1125899906842624, 2251799813685248, 4503599627370496, 9007199254740992, 18014398509481984, 36028797018963968, 72057594037927936, 144115188075855872, 288230376151711744, 576460752303423488, 1152921504606846976, 2305843009213693952, 4611686018427387904, 9223372036854775808, 18446744073709551616, 36893488147419103232, 73786976294838206464, 147573952589676412928, 295147905179352825856, 590295810358705651712, 1180591620717411303424, 2361183241434822606848, 4722366482869645213696, 9444732965739290427392, 18889465931478580854784, 37778931862957161709568, 75557863725914323419136, 151115727451828646838272, 302231454903657293676544, 604462909807314587353088, 1208925819614629174706176, 2417851639229258349412352, 4835703278458516698824704, 9671406556917033397649408, 19342813113834066795298816, 38685626227668133590597632, 77371252455336267181195264, 154742504910672534362390528, 309485009821345068724781056, 618970019642690137449562112, 1237940039285380274899124224, 2475880078570760549798248448, 4951760157141521099596496896, 9903520314283042199192993792, 19807040628566084398385987584, 39614081257132168796771975168, 79228162514264337593543950336, 158456325028528675187087900672, 316912650057057350374175801344, 633825300114114700748351602688, 1267650600228229401496703205376, 2535301200456458802993406410752, 5070602400912917605986812821504, 10141204801825835211973625643008, 20282409603651670423947251286016, 40564819207303340847894502572032, 81129638414606681695789005144064, 162259276829213363391578010288128, 324518553658426726783156020576256, 649037107316853453566312041152512, 1298074214633706907132624082305024, 2596148429267413814265248164610048, 5192296858534827628530496329220096, 10384593717069655257060992658440192, 20769187434139310514121985316880384, 41538374868278621028243970633760768, 83076749736557242056487941267521536, 166153499473114484112975882535043072, 332306998946228968225951765070086144, 664613997892457936451903530140172288, 1329227995784915872903807060280344576, 2658455991569831745807614120560689152, 5316911983139663491615228241121378304, 10633823966279326983230456482242756608, 21267647932558653966460912964485513216, 42535295865117307932921825928971026432, 85070591730234615865843651857942052864, 170141183460469231731687303715884105728, 340282366920938463463374607431768211456, 680564733841876926926749214863536422912, 1361129467683753853853498429727072845824, 2722258935367507707706996859454145691648, 5444517870735015415413993718908291383296, 10889035741470030830827987437816582766592, 21778071482940061661655974875633165533184, 43556142965880123323311949751266331066368, 87112285931760246646623899502532662132736, 174224571863520493293247799005065324265472, 348449143727040986586495598010130648530944, 696898287454081973172991196020261297061888, 1393796574908163946345982392040522594123776, 2787593149816327892691964784081045188247552, 5575186299632655785383929568162090376495104, 11150372599265311570767859136324180752990208, 22300745198530623141535718272648361505980416, 44601490397061246283071436545296723011960832, 89202980794122492566142873090593446023921664, 178405961588244985132285746181186892047843328, 356811923176489970264571492362373784095686656, 713623846352979940529142984724747568191373312, 1427247692705959881058285969449495136382746624, 2854495385411919762116571938898990272765493248, 5708990770823839524233143877797980545530986496, 11417981541647679048466287755595961091061972992, 2283596308329	

Parameter	Value	Unit
Initial concentration	1.0	g/L
Initial pH	7.0	
Temperature	25	°C
Time	0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048, 4096, 8192, 16384, 32768, 65536, 131072, 262144, 524288, 1048576, 2097152, 4194304, 8388608, 16777216, 33554432, 67108864, 134217728, 268435456, 536870912, 1073741824, 2147483648, 4294967296, 8589934592, 17179869184, 34359738368, 68719476736, 137438953472, 274877906944, 549755813888, 1099511627776, 2199023255552, 4398046511104, 8796093022208, 17592186044416, 35184372088832, 70368744177664, 140737488355328, 281474976710656, 562949953421312, 1125899906842624, 2251799813685248, 4503599627370496, 9007199254740992, 18014398509481984, 36028797018963968, 72057594037927936, 144115188075855872, 288230376151711744, 576460752303423488, 1152921504606846976, 2305843009213693952, 4611686018427387904, 9223372036854775808, 18446744073709551616, 36893488147419103232, 73786976294838206464, 147573952589676412928, 295147905179352825856, 590295810358705651712, 1180591620717411303424, 2361183241434822606848, 4722366482869645213696, 9444732965739290427392, 18889465931478580854784, 37778931862957161709568, 75557863725914323419136, 151115727451828646838272, 302231454903657293676544, 604462909807314587353088, 1208925819614629174706176, 2417851639229258349412352, 4835703278458516698824704, 9671406556917033397649408, 19342813113834066795298816, 38685626227668133590597632, 77371252455336267181195264, 154742504910672534362390528, 309485009821345068724781056, 618970019642690137449562112, 1237940039285380274899124224, 2475880078570760549798248448, 4951760157141521099596496896, 9903520314283042199192993792, 19807040628566084398385987584, 39614081257132168796771975168, 79228162514264337593543950336, 158456325028528675187087900672, 316912650057057350374175801344, 633825300114114700748351602688, 1267650600228229401496703205376, 2535301200456458802993406410752, 5070602400912917605986812821504, 10141204801825835211973625643008, 20282409603651670423947251286016, 40564819207303340847894502572032, 81129638414606681695789005144064, 162259276829213363391578010288128, 324518553658426726783156020576256, 649037107316853453566312041152512, 1298074214633706907132624082305024, 2596148429267413814265248164610048, 5192296858534827628530496329220096, 10384593717069655257060992658440192, 20769187434139310514121985316880384, 41538374868278621028243970633760768, 83076749736557242056487941267521536, 166153499473114484112975882535043072, 332306998946228968225951765070086144, 664613997892457936451903530140172288, 1329227995784915872903807060280344576, 2658455991569831745807614120560689152, 5316911983139663491615228241121378304, 10633823966279326983230456482242756608, 21267647932558653966460912964485513216, 42535295865117307932921825928971026432, 85070591730234615865843651857942052864, 170141183460469231731687303715884105728, 340282366920938463463374607431768211456, 680564733841876926926749214863536422912, 1361129467683753853853498429727072845824, 2722258935367507707706996859454145691648, 5444517870735015415413993718908291383296, 10889035741470030830827987437816582766592, 21778071482940061661655974875633165533184, 43556142965880123323311949751266331066368, 87112285931760246646623899502532662132736, 174224571863520493293247799005065324265472, 348449143727040986586495598010130648530944, 696898287454081973172991196020261297061888, 1393796574908163946345982392040522594123776, 2787593149816327892691964784081045188247552, 5575186299632655785383929568162090376495104, 11150372599265311570767859136324180752990208, 22300745198530623141535718272648361505980416, 44601490397061246283071436545296723011960832, 89202980794122492566142873090593446023921664, 178405961588244985132285746181186892047843328, 356811923176489970264571492362373784095686656, 713623846352979940529142984724747568191373312, 1427247692705959881058285969449495136382746624, 2854495385411919762116571938898990272765493248, 5708990770823839524233143877797980545530986496, 11417981541647679048466287755595961091061972992, 2283596308329	

Parameter	Value	Unit
Initial concentration	1.0	g/L
Initial pH	7.0	
Temperature	25	°C
Time	0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048, 4096, 8192, 16384, 32768, 65536, 131072, 262144, 524288, 1048576, 2097152, 4194304, 8388608, 16777216, 33554432, 67108864, 134217728, 268435456, 536870912, 1073741824, 2147483648, 4294967296, 8589934592, 17179869184, 34359738368, 68719476736, 137438953472, 274877906944, 549755813888, 1099511627776, 2199023255552, 4398046511104, 8796093022208, 17592186044416, 35184372088832, 70368744177664, 140737488355328, 281474976710656, 562949953421312, 1125899906842624, 2251799813685248, 4503599627370496, 9007199254740992, 18014398509481984, 36028797018963968, 72057594037927936, 144115188075855872, 288230376151711744, 576460752303423488, 1152921504606846976, 2305843009213693952, 4611686018427387904, 9223372036854775808, 18446744073709551616, 36893488147419103232, 73786976294838206464, 147573952589676412928, 295147905179352825856, 590295810358705651712, 1180591620717411303424, 2361183241434822606848, 4722366482869645213696, 9444732965739290427392, 18889465931478580854784, 37778931862957161709568, 75557863725914323419136, 151115727451828646838272, 302231454903657293676544, 604462909807314587353088, 1208925819614629174706176, 2417851639229258349412352, 4835703278458516698824704, 9671406556917033397649408, 19342813113834066795298816, 38685626227668133590597632, 77371252455336267181195264, 154742504910672534362390528, 309485009821345068724781056, 618970019642690137449562112, 1237940039285380274899124224, 2475880078570760549798248448, 4951760157141521099596496896, 9903520314283042199192993792, 19807040628566084398385987584, 39614081257132168796771975168, 79228162514264337593543950336, 158456325028528675187087900672, 316912650057057350374175801344, 633825300114114700748351602688, 1267650600228229401496703205376, 2535301200456458802993406410752, 5070602400912917605986812821504, 10141204801825835211973625643008, 20282409603651670423947251286016, 40564819207303340847894502572032, 81129638414606681695789005144064, 162259276829213363391578010288128, 324518553658426726783156020576256, 649037107316853453566312041152512, 1298074214633706907132624082305024, 2596148429267413814265248164610048, 5192296858534827628530496329220096, 10384593717069655257060992658440192, 20769187434139310514121985316880384, 41538374868278621028243970633760768, 83076749736557242056487941267521536, 166153499473114484112975882535043072, 332306998946228968225951765070086144, 664613997892457936451903530140172288, 1329227995784915872903807060280344576, 2658455991569831745807614120560689152, 5316911983139663491615228241121378304, 10633823966279326983230456482242756608, 21267647932558653966460912964485513216, 42535295865117307932921825928971026432, 85070591730234615865843651857942052864, 170141183460469231731687303715884105728, 340282366920938463463374607431768211456, 680564733841876926926749214863536422912, 1361129467683753853853498429727072845824, 2722258935367507707706996859454145691648, 5444517870735015415413993718908291383296, 10889035741470030830827987437816582766592, 21778071482940061661655974875633165533184, 43556142965880123323311949751266331066368, 87112285931760246646623899502532662132736, 174224571863520493293247799005065324265472, 348449143727040986586495598010130648530944, 696898287454081973172991196020261297061888, 1393796574908163946345982392040522594123776, 2787593149816327892691964784081045188247552, 5575186299632655785383929568162090376495104, 11150372599265311570767859136324180752990208, 22300745198530623141535718272648361505980416, 44601490397061246283071436545296723011960832, 89202980794122492566142873090593446023921664, 178405961588244985132285746181186892047843328, 356811923176489970264571492362373784095686656, 713623846352979940529142984724747568191373312, 1427247692705959881058285969449495136382746624, 2854495385411919762116571938898990272765493248, 5708990770823839524233143877797980545530986496, 11417981541647679048466287755595961091061972992, 2283596308329	

accurate and helpful. Additionally, there may be occasions where the CSR 28 that initially contacts the visitor 16 is not the most knowledgeable concerning the information being sought by the visitor. The CSR 28 can then transfer the visitor to another CSR 28 having more specialized knowledge, and the second CSR 28 would be given the transcript of the dialog up to that point. As a feature of the present invention, the visitor 16 can be given the opportunity to receive a copy of the transcript, either by printing it from the screen or by receiving an email from the CSR 28. This way, the visitor 16 can review the information he or she has received at another time and possibly re-enter the website to make his or her final purchase decision, or be contacted by a CSR 28 to ask additional questions.

The information regarding visitors on various pages of the website is captured and recorded in the form of a "clickstream". The clickstream records the information regarding the IP address of the visitors, what page the visitor 16 was accessing, when the visitor arrived on the page, as well as when did the visitor leave from this page. This clickstream generates valuable information which in some ways is similar to the information produced by the web-servers logs, except the clickstream may include additional information over and above what a webserver's log files contains (leave times are one such example).

Based on the information being captured in real-time by the system, intelligent rules can be configured to detect certain browsing patterns which may be of interest to website operators. For example, a users going back and forth between the same pages multiple times, may indicate that the user is confused and could use additional help; a user who has been idle on an order form page may similarly have some problem due to which he/she has not completed the order and may potentially abandon his or her shopping cart resulting in a lost sale for the website. As another feature of the present invention, preferably includes a typing indicator to provide feedback when

09593978-054300 a visitor 16 is typing information into an appropriate field within the website. This can be an indication, for example, that the visitor is actively seeking information rather than merely browsing through the site. In this way, a CSR 28 is notified that a visitor 16 is more than just a casual browser and would appreciate receiving direct contact to help him or her obtain the specific information the visitor 16 needs.

Based on the browsing patterns of the visitor being analyzed in real-time, the rules may trigger an alert to a Customer Service Representative, advising the representative that this visitor 16 is a good prospect to approach, or this information may be used to prioritize customers in the view being seen by the support representatives.

The apparatus described in this invention may be implemented in more than just the sample embodiment described above. An alternative approach is to embed Javascript code in the website. When the visitor arrives on the page, the Javascript embedded in the page can make a request to the web server notifying it of the visitor's arrival. Thereafter, the communication between the visitors browser and the server may be accomplished by having the JavaScript poll the server at periodic intervals for any updated information. When the user requests assistance or a customer service representative approaches a user, the server can then update the client's browser to launch a new window in order to initiate the chat dialog between the visitor 16 and the customer service representative.

Therefore, it is possible to achieve the same effect as by the detailed description above using different technologies, while the specific implementation for a particular technology would be readily apparent to one skilled in the art knowing the principals of the invention as described herein.

While specific embodiments of the invention have been described in detail, it will be appreciated by those skilled in the art that various modifications and alternatives to those details could be developed in light of the overall teachings of the disclosure. Accordingly, the particular arrangements disclosed are meant to be illustrative only and not limiting to the scope of the invention which is to be given the full breadth of the following claims, and any and all embodiments thereof.

CLAIMS:

1. Apparatus for monitoring website activity comprising:

means for tracking a visit to a website by a visitor;

means for identifying the visitor;

means for monitoring progress of the visitor to additional pages within the website; and

means for initiating direct communication with the visitor according to the progress of the visitor within the website.

2. The apparatus as recited in claim 1 further including means for indicating the number of visitors accessing each of said additional page within the website.

3. The apparatus as recited in claim 2, wherein said means for indicating the number of visitors comprises a radar screen.

4. The apparatus as recited in claim 2, wherein said means for indicating the number of visitors comprises a bar graph.

5. The apparatus as recited in claim 1, wherein said means for initiating direct communication with the visitor comprises a text box which is presented to the visitor by a customer service representative, the text box further including means for identifying the customer service representative to the visitor and an interactive dialog box for the exchange of information between the customer service representative and the visitor.

6. A method of providing customer service to a website visitor, the method comprising the steps of:

- identifying to a website customer service representative that a visitor has accessed the website;
- identifying the visitor to the customer service representative;
- monitoring progress of the visitor to additional pages in the website;
- operably connecting the customer service representative with the visitor; and
- providing a dialog box from the customer service representative to the visitor such that instantaneous real-time communication is initiated between the customer service representative and the visitor.

ABSTRACT

A system for allowing company representatives or web site operators to monitor and track activity of visitors to their web site and proactively establish live contact with the visitor using text messaging. A customer service representative of a website operator can instantly send a message to a visitor in order to help them obtain the most relevant information desired, and to directly answer any questions the visitor may have. A radar screen provides information to the website operator of how people are accessing their website by providing on one screen a visual comparison of the different locations or pages within the website where the visitors are browsing. The radar screen can be divided into sectors representative of each of these locations, and the number of visitors to each one is indicated.

09593978-061300

www Meet.com CSR Radar				
	Host	IP	Current URL	Arrival Time
16	daschund.sneakerlabs.com	205.201.53.23	http://www.sneakerlabs.com/	8:41:27 AM
	jackal.sneakerlabs.com	205.201.53.25	http://www.sneakerlabs.com/	8:54:59 AM
	daschund.sneakerlabs.com	205.201.53.23	http://www.sneakerlabs.com/	8:20:05 AM

Figure 2

09593978-061300
00ET90" 846E6560

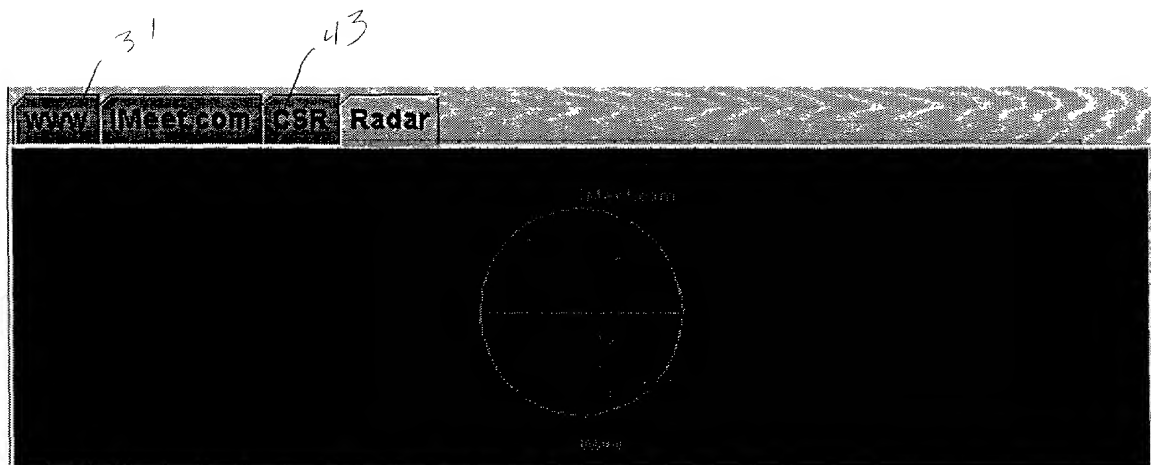


Figure 4A

09593978-061300

http://setter.sneakerlabs.com/serve/rep/console/ - Microsoft Internet Explorer

File Edit View Favorites Tools Help

SNEAKERLABS

iServe Connector arrived in Zone Default Zone

Host	Current Location	Time
setter sneakerlabs.com	http://setter.sneakerlabs	09:12
setter sneakerlabs.com	http://setter.sneakerlabs	09:51
setter sneakerlabs.com	http://setter.sneakerlabs	09:47

Resources Information Summary

- Global Resources
- Company Pages
 - Home Page
 - iServe
 - iMeet
 - iServe demo script
- Zone Resources (Default Zone)

Radar **NOTES**

Default Zone

Test Zone

LIVE Rep • Replicator •

WELCOME

This is where "pushed pages" will appear
From here you can collaboratively browse with visitors


49 ↗

FIG. 4B

28

iServe Messenger

SNEAKER LABS, INC.



Luis

Luis says, Hello! How may I help you?
 You say, I'm interested in purchasing some sprockets
 Luis says, You've come to the right place!
 Luis says, Let me push you a web page with information

46

iServe

Warning: Apple Window

No Thanks Just Browsing

SEND

A www IMeet.com CSR Radar	
ID localhost/127.0.0.1	Manu: Hello, and welcome to SneakerLabs! Is there anything I can help you with today?
IP Address / Host 205.201.53.23 / daschund.sneak	
Arrival Time Fri Jun 11 09:54:15 EDT 1999	<input type="text"/>
Current Page: http://www.sneakerlabs.com/	Transfer Exit Chat

Figure 6A

http://setter.sneakerlabs.com/iserve/rep/console/ - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Available Pushed Rep Sound Preview Help Docs Exit

SNEAKERLABS

iServe Connector arrived in Zone Default Zone

Transfer • 0 (John Smith)

Host	Current Location	Time
setter sneakerlabs.com	http://setter.sneakerlabs	06:59
setter sneakerlabs.com	http://setter.sneakerlabs	07:38
setter sneakerlabs.com	http://setter.sneakerlabs	07:34

Resources Information History

- Global Resources
 - Company Pages
 - Home Page
 - iServe
 - iMeet
 - iServe demo script
 - Zone Resources (Default Zone)

Transfer

Luis: Hello! How may I help you?
 Connector: I'm interested in purchasing some sprockets.
 Luis: You've come to the right place!
 Luis: Let me push you a web page with information.

http://www.oursite.com/sprockets/ Send

WELCOME

This is where "pushed pages" will appear
 From here you can collaboratively browse with visitors

$K = 6B$